

**IN THE CLAIMS:**

Kindly amend the claims, as follows:

1. (Currently Amended) A media player/recorder comprising:
  - a storage device to store compressed media data;
  - a programmable processor which is programmed as a storage controller to retrieve the compressed media data stored in said storage device;
  - a memory to store the compressed media data retrieved by said programmable processor,
    - wherein said programmable processor is also programmed as a digital signal processor to decompress the compressed media data stored in said memory; and
    - an output circuit to output the decompressed media data from said programmable processor.
2. (Original) A media player/recorder according to claim 1, wherein said memory comprises a dynamic access memory.
3. (Original) A media player according to claim 1, further comprising an interface responsive to said processor to communicate with an external device.
4. (Currently Amended) A media player according to claim 1, wherein said ~~processor comprises a digital signal processor is configured~~ to control said storage device and to decompress the media data stored in said memory.

5. (Currently amended) A media player according to claim 1, wherein said programmable processor comprises a single integrated circuit comprising:

[[a]] said digital signal processor to control said storage device and to decompress the compressed media data stored in said memory;

[[a]] said storage controller responsive to said digital signal processor; and  
a read channel to read data from said storage device and responsive to said storage controller.

6. (Original) A media player according to claim 4, wherein said digital signal processor comprises a decoder to decompress the media data stored in said memory.

7. (Original) A media player according to claim 6, wherein said storage device stores a process for decompressing compressed data for a selected compression format.

8. (Original) A media player according to claim 7, wherein said digital signal processor determines a compression format of the media data stored in said memory,  
wherein the process for decompressing compressed data is retrieved from said storage device in accordance with the determined compression format, and  
wherein said decoder decompresses the media data in accordance with the retrieved process.

9. (Original) A media player according to claim 3, wherein the media data is transferred from the external device through said interface for storage on said storage device.

10. (Original) A media player according to claim 4, further comprising an input circuit to receive media data,

wherein said digital signal processor comprises an encoder to compress the received media data, and

wherein the compress media data received by said input circuit is stored on said storage device.

11. (Currently Amended) A media player/recorder comprising:

a storage device to store compressed media data;

a programmable processor which is programmed as a storage controller to retrieve the compressed media data stored in said storage device;

wherein said programmable processor decompresses the compressed media data stored in said storage device; and

an output circuit to output the decompressed media data from said programmable processor,

wherein said programmable processor comprises a digital signal processor, and [[used]] uses the same circuit to control said storage device and to decompress the compressed media data stored in said memory.

12. (Original) A media player/recorder according to claim 11, wherein said memory comprises a dynamic access memory.

13. (Original) A media player according to claim 11, further comprising an interface responsive to said processor to communicate with an external device.

14. (Currently Amended) A media player according to claim 11, wherein said programmable processor comprises a single integrated circuit comprising:

[[a]] said digital signal processor to control said storage device and to decompress the

compressed media data stored in said memory;

[[a]] said storage controller responsive to said digital signal processor; and  
a read channel to read data from said storage device and responsive to said storage controller.

15. (Original) A media player according to claim 11, wherein said digital signal processor comprises a decoder to decompress the media data stored in said memory.

16. (Original) A media player according to claim 15, wherein said storage device stores a process for decompressing compressed data for a selected compression format.

17. (Original) A media player according to claim 16, wherein said digital signal processor determines a compression format of the media data stored in said memory,  
wherein the process for decompressing compressed data is retrieved from said storage device in accordance with the determined compression format, and  
wherein said decoder decompresses the media data in accordance with the retrieved process.

18. (Original) A media player according to claim 13, wherein the media data is transferred from the external device through said interface for storage on said storage device.

19. (Original) A media player according to claim 11, further comprising an input circuit to receive media data,  
wherein said digital signal processor comprises an encoder to compress the received media data, and  
wherein the compress media data received by said input circuit is stored on said

storage device.

20. (Currently Amended) An integrated circuit to control a media player/recorder having a storage device having stored thereon compressed media data, a memory and an output circuit, said integrated circuit comprising:

a programmable processor that is programmed as:

    a digital signal processor to control the storage device;  
    a storage controller responsive to said digital signal processor; and  
    a read channel responsive to said storage controller to read the compressed media data from the storage device,

        wherein said digital signal processor transfers the compressed media data read by said read channel to the memory,

        wherein said digital signal processor comprises a decoder to decompress the compressed media data stored in said memory; and

        wherein said digital signal processor converts the media data decompressed by said decoder to an analog signal.

21. (Original) A media player according to claim 20,

    wherein the storage device stores a process for decompressing compressed data for a selected compression format,

    wherein said digital signal processor determines a compression format of the media data stored in the memory,

    wherein the process for decompressing compressed data is retrieved from the storage device in accordance with the determined compression format, and

    wherein said decoder decompresses the media data in accordance with the retrieved process.

22. (Previously Presented) A method of playing and recording media data from a media player/recorder, said method comprising the steps of:

- a. storing compressed media data on a storage device;
- b. using a circuit to retrieve the compressed media data stored on the storage device;
- c. transferring the compressed media data retrieved in step b to a memory;
- d. using the same circuit used for said retrieves to decompress the compressed media data transferred in step c; and
- e. outputting the decompressed media data.

23. (Original) A method of claim 22, wherein step a comprises the step of communication with an external device.

24. (Canceled)

25. (Original) A method of claim 22, further comprising the steps of:

- f. storing a process for decompressing compressed data for a selected compression format;
- g. determining a compression format of the media data transferred in step c;
- h. retrieving the selected compression format stored in step f; and
- i. decompressing the compressed media data transferred in step c in accordance with the retrieved selected compression format in step h.

26. (Original) A method of claim 22 further comprising the steps of:

- j. inputting a signal;
- k. compressing the signal input in step j; and
- l. storing the compressed signal from step k on the storage device.

27. (Cancelled)

28. (Currently Amended) A media player/recorder comprising:

storage means for storing compressed media data;

programmable processing means programmed as a storage controller means for retrieving the compressed media data stored in said storage means;

memory means for storing the compressed media data retrieved by said programmable processing means,

wherein said programmable processing means is also programmed as a digital signal processing means for decompressing the compressed media data stored in said memory means; and

output means for outputting the decompressed media data from said programmable processing means.

29. (Original) A media player/recorder according to claim 28, wherein said memory means comprises a dynamic access memory means.

30. (Original) A media player according to claim 28, further comprising interface means responsive to said processing means for communicating with an external device.

31. (Currently Amended) A media player according to claim 28, wherein said

~~processing means comprises~~ digital signal processing means is configured for controlling said storage means and for decompressing the compressed media data stored in said memory means.

32. (Currently Amended) A media player according to claim 28, wherein said programmable processing means comprises a single integrated circuit comprising:

said digital signal processing means for controlling said storage means and for decompressing the compressed media data stored in said memory means;

said storage controller means responsive to said digital signal processing means for controlling said storage means; and

read channel means for reading data from said storage means and responsive to said storage controller means.

33. (Original) A media player according to claim 31, wherein said digital signal processing means comprises a decoding means for decompressing the media data stored in said memory means.

34. (Original) A media player according to claim 33, wherein said storage means stores a process for decompressing compressed data for a selected compression format.

35. (Original) A media player according to claim 34, wherein said digital signal processing means determines a compression format of the media data stored in said memory means,

wherein the process for decompressing compressed data is retrieved from said storage means in accordance with the determined compression format, and

wherein said decoding means decompresses the media data in accordance with the

retrieved process.

36. (Original) A media player according to claim 30, wherein the media data is transferred from the external device through said interface means for storage on said storage means.

37. (Original) A media player according to claim 31, further comprising input means for receiving media data,

wherein said digital signal processing means comprises encoding means for compressing the received media data, and

wherein the compressed media data received by said input means is stored on said storage means.

38. (Currently Amended) A media player/recorder comprising:

storage means for storing compressed media data;

programmable processing means that is programmed as a storage controller means for retrieving the compressed media data stored in said storage means;

wherein said programmable processing means decompresses the compressed media data stored in said storage means; and

output means for outputting the decompressed media data from said programmable processing means,

wherein said programmable processing means comprises a digital signal processing means and uses the same circuit for controlling said storage means and for decompressing the compressed media data stored in said memory means.

39. (Original) A media player/recorder according to claim 38, wherein said

memory means comprises a dynamic access memory means.

40. (Original) A media player according to claim 38, further comprising an interface means responsive to said processing means for communicating with an external device.

41. (Currently Amended) A media player according to claim 38, wherein said programmable processing means comprises a single integrated circuit comprising:

said digital signal processing means for controlling said storage means and for decompressing the compressed media data stored in said memory means;

said storage controller means responsive to said digital signal processing means for controlling said storage device; and

read channel means for reading data from said storage means and responsive to said storage controller means.

42. (Original) A media player according to claim 38, wherein said digital signal processing means comprises decoding means for decompressing the media data stored in said memory means.

43. (Original) A media player according to claim 42, wherein said storage means stores a process for decompressing compressed data for a selected compression format.

44. (Original) A media player according to claim 43, wherein said digital signal processing means determines a compression format of the media data stored in said memory means,

wherein the process for decompressing compressed data is retrieved from said storage

means in accordance with the determined compression format, and

wherein said decoding means decompresses the media data in accordance with the retrieved process.

45. (Original) A media player according to claim 40, wherein the media data is transferred from the external device through said interface means for storage on said storage means.

46. (Original) A media player according to claim 38, further comprising input means for receiving media data,

wherein said digital signal processing means comprises encoding means for compressing the received media data, and

wherein the compressed media data received by said input means is stored on said storage means.

47. (Currently Amended) An integrated circuit for controlling a media player/recorder having storage means having stored thereon compressed media data, memory means and output means, said integrated circuit comprising:

a programmable processor means that is programmed as:

digital signal processing means for controlling the storage means;

storage controller means responsive to said digital signal processing means;  
and

read channel means responsive to said storage controller means for reading the compressed media data from the storage means,

wherein said digital signal processing means transfers the compressed media data read by said read channel means to the memory means,

wherein said digital signal processing means comprises a decoding means for decompressing the compressed media data stored in said memory means; and

wherein said digital signal processing means converts the media data decompressed by said decoding means to an analog signal.

48. (Original) A media player according to claim 47,

wherein the storage means stores a process for decompressing compressed data for a selected compression format,

wherein said digital signal processing means determines a compression format of the media data stored in the memory means,

wherein the process for decompressing compressed data is retrieved from the storage means in accordance with the determined compression format, and

wherein said decoding means decompresses the media data in accordance with the retrieved process.

49. – 96. (Canceled)

97. (Original) A media player/recorder according to claim 1, wherein said storage device comprises a hard disk.

98. (Original) A media player/recorder according to claim 1, wherein said storage device is selected from the group consisting of optical disk, magnetic disk, CD ROM, CDR, and CDRW.

99. (Original) A media player/recorder according to claim 5, wherein said storage device comprises a hard disk, and

wherein said storage controller comprises a hard disk controller.

100. (Original) A media player/recorder according to claim 11, wherein said storage device comprises a hard disk.

101. (Original) A media player/recorder according to claim 11, wherein said storage device is selected from the group consisting of optical disk, magnetic disk, CD ROM, CDR, and CDRW.

102. (Original) A media player/recorder according to claim 14, wherein said storage device comprises a hard disk, and

wherein said storage controller comprises a hard disk controller.

103. (Original) An integrated circuit according to claim 20, wherein the storage device comprises a hard disk, and

wherein said storage controller comprises a hard disk controller.

104. (Original) A method according to claim 22, wherein the storage device comprises a hard disk.

105. (Original) A method according to claim 22, wherein the storage device is selected from the group consisting of optical disk, magnetic disk, CD ROM, CDR, and CDRW.

106. (Original) A media player/recorder according to claim 28, wherein said storage means comprises hard disk means.

107. (Original) A media player/recorder according to claim 28, wherein said storage means is selected from the group consisting of optical storage means, magnetic storage means, CD ROM, CDR, and CDRW.

108. (Original) A media player/recorder according to claim 32, wherein said storage means comprises hard disk means, and  
wherein said storage controller means comprises hard disk controller means.

109. (Original) A media player/recorder according to claim 38, wherein said storage means comprises hard disk means.

110. (Original) A media player/recorder according to claim 38, wherein said storage means is selected from the group consisting of optical storage means, magnetic storage means, CD ROM, CDR, and CDRW.

111. (Original) A media player/recorder according to claim 41, wherein said storage means comprises hard disk means, and wherein said storage controller means comprises hard disk controller means.

112. (Original) An integrated circuit according to claim 47, wherein the storage means comprises hard disk means, and  
wherein said storage controller means comprises hard disk controller means.

113. – 168. (Canceled)

169. (Original) A media player/recorder comprising:

a storage device to store media data, the media data comprising a plurality of selections;

a memory;

a processor to transfer first portions of at least one of the plurality of selections of the media data from said storage device to said memory;

an output device,

wherein said output device outputs the first portions of the at least one of the plurality of sections of the media data from the memory,

wherein when a user selects a particular one of said plurality of selections, said processor retrieves a remaining portion of the particular one of said plurality of selections and said output device outputs the portion and remaining portion the particular one of said plurality of selections.

170. (Original) A media player/recorder comprising:

storage means for storing media data, the media data comprising a plurality of selections;

memory means for storing data;

processing means for transferring first portions of at least one of the plurality of selections of the media data from said storage means to said memory means;

an output means for outputting the first portions of the at least one of the plurality of sections of the media data from said memory means,

wherein when a user selects a particular one of said plurality of selections, said processing means retrieves a remaining portion of the particular one of said plurality of selections and said output means outputs the portion and remaining portion the particular one of said plurality of selections.

171. (Original) A method of playing and recording media data from a media player/recorder , said method comprising the steps of:

- (a) storing media data, the media data comprising a plurality of selections;
- (b) transferring first portions of at least one of the plurality of selections of the media data from step (a) to a means;
- (c) outputting the first portions of the at least one of the plurality of sections of the media data from the memory,

wherein when a user selects a particular one of said plurality of selections, then retrieving a remaining portion of the particular one of said plurality of selections and then outputting the portion and remaining portion the particular one of said plurality of selections.

172. (Original) A computer program for playing and recording media data from a media player/recorder , said method comprising the steps of:

- (a) storing media data, the media data comprising a plurality of selections;
- (b) transferring first portions of at least one of the plurality of selections of the media data from step (a) to a means;
- (c) outputting the first portions of the at least one of the plurality of sections of the media data from the memory,

wherein when a user selects a particular one of said plurality of selections, then retrieving a remaining portion of the particular one of said plurality of selections and then outputting the portion and remaining portion the particular one of said plurality of selections.